

THEORETICAL COMPUTER SCIENCE
'ALGORITHMS, AUTOMATA, COMPLEXITY AND GAMES'

EDITOR-IN-CHIEF

M. Nivat (*Université Paris VII et Institut de Recherche d'Informatique et d'Automatique*), 26
Rue du Poitou, 94550 Chevilly-Larue, France

ASSOCIATE EDITOR

M.S. Paterson, *Department of Computer Science, University of Warwick, Coventry, United Kingdom CV4 7AL*

EDITORIAL BOARD

- G. Ausiello, *Dipartimento di Informatica e Sistemistica, Università degli Studi di Roma "La Sapienza"*, Via Salaria 113, 00198 Roma, Italy
- J. Bečvář, *Mathematical Institute of the Academy of Sciences, PSC 11567, Zitna 25, Prague 1, Czechoslovakia*
- J. Boissonat, *INRIA, Sophia-Antipolis, 2004 Route des Lucioles, 06565 Valbonne Cédex, France*
- R.V. Book, *Department of Mathematics and Computer Science Program, University of California, Santa Barbara, CA 93106, U.S.A.*
- D. Coppersmith, *IBM Research Division, T.J. Watson Research Center, P.O. Box 218, Yorktown Heights, NY 10598, U.S.A.*
- J. Diaz, *Facultad d'Informatica, Universidad Politecnica de Barcelona, Pau Gargallo 5, 08028 Barcelona, Spain*
- P. Flajolet, *INRIA, Domaine de Voluceau-Rocquencourt, B.P. 105, F-78153 Le Chesnay Cedex, France*
- M.A. Harrison, *Department of Computer Science, University of California, Berkeley, CA 94720, U.S.A.*
- G. Jäger, *Institut für Informatik und angewandte Mathematik, Universität Bern, Länggasstrasse 51, CH-3012 Bern, Switzerland*
- J. van Leeuwen, *Department of Computer Science, University of Utrecht, P.O. Box 80.089, 3508 TB Utrecht, The Netherlands*
- I. Mitrani, *Department of Computer Science, University of Newcastle-upon-Tyne, Newcastle, United Kingdom NE1 7RU*
- D. Perrin, *L.I.T.P., Tour 55-56, 1er étage, Université Paris VII, 2 Place Jussieu, 75251 Paris Cédex 05, France*
- F.P. Preparata, *Coordinated Science Lab., University of Illinois, 1101 W. Springfield Avenue, Urbana, IL 61801, U.S.A.*
- G. Rozenberg, *Department of Computer Science, Leiden University, P.O. Box 9512, 2300 RA Leiden, The Netherlands*
- A. Salomaa, *Department of Mathematics, University of Turku, SF-20500 Turku, Finland*
- E. Shamir, *Department of Mathematics, The Hebrew University, Jerusalem 91904, Israel*
- I. Simon, *Instituto de Matemática e Estatística, Universidade de São Paulo, Caixa Postal 20570 (Agencia Ignatemi), CEP 01498, São Paulo, Brazil*
- R. Siromoney, *Department of Mathematics, Madras Christian College, Tambaram, Madras 600059, India*
- Teh Hoon-Heng, *Institute of System Science, National University of Singapore, Heng Mui Keng Terrace, Kent Ridge, Singapore 0511*
- S. Tripathi, *Department of Computer Science, University of Maryland, College Park, MD 20742, U.S.A.*
- F. Yao, *Computer Science Laboratory, Xerox Corporation, Palo Alto Research Center, Palo Alto, CA 94304, U.S.A.*
- P. Young, *Department of Computer Science, FR 35, University of Washington, Seattle, WA 98195, U.S.A.*

MATHEMATICAL GAMES SECTION: AIMS AND SCOPE

This section is devoted to, but not restricted to, the mathematical and computational analysis of games. It will cover:

- *multi-person games*: geometrical, combinatorial, positional, probabilistic, random, recursive and Ramsey-type games, games with perfect and imperfect information, games with and without chance moves and games against Nature;
- *one-person games*: puzzles, pebbling and others;
- *zero-person games*: cellular automata and others.

It will also cover connections or applications of games to areas such as complexity, graph and matroid theory, networks, coding theory, logic and surreal numbers.

Papers describing and analyzing algorithms or computer programs related to games are welcome. Only papers with original and nontrivial mathematical contents will be considered for publication.

ASSOCIATE EDITOR

A.S. Fraenkel, *Department of Applied Mathematics and Computer Science, Faculty of Mathematical Sciences, The Weizmann Institute of Science, Rehovot 76100, Israel*

EDITORIAL BOARD

C. Berge, *Centre National de la Recherche Scientifique, Equipe de Recherche 175, COMBINATOIRE, C.A.M.S., 54 Boulevard Raspail, 75270 Paris Cedex 06, France*

E.R. Berlekamp, *Department of Computer Science, University of California, Berkeley, CA 94720, U.S.A.*

H.J. Berliner, *School of Computer Science, Carnegie-Mellon University, Pittsburgh, PA 15213-3890, U.S.A.*

J.H. Conway, *Mathematics Department, Princeton University, Fine Hall, Washington Road, Princeton, NJ 08520, U.S.A.*

R.K. Guy, *Department of Mathematics and Statistics, University of Calgary, Calgary, Alberta, Canada, T2N 1N4*

J.H. van Lint, *Afdeling Wiskunde, T.U. Eindhoven, Postbus 513, 5600 MB Eindhoven, The Netherlands*

R. Penrose, *Mathematics Institute, Oxford University, 24-29 St. Giles, Oxford, U.K.*

THEORETICAL COMPUTER SCIENCE
'LOGIC, SEMANTICS AND THEORY OF PROGRAMMING'

EDITOR-IN-CHIEF

M. Nivat (*Université Paris VII et Institut de Recherche d'Informatique et d'Automatique*), 26
Rue du Poitou, 94550 Chevilly-Larue, France

ADVISORY EDITOR

M. Sintzoff, *Unité d'Informatique, Université Catholique de Louvain, Place Sainte-Barbe 2,*
B-1348 Louvain-la-Neuve, Belgium

ASSOCIATE EDITOR

M. Wirsing, *Lehrstuhl für Informatik, Universität Passau, Postfach 2540, D-8390 Passau,*
Fed. Rep. Germany

EDITORIAL BOARD

S. Abramsky, *Department of Computing, Imperial College, 180 Queen's Gate, London,*
United Kingdom SW7 2BZ

J.W. de Bakker, *Department of Computer Science, Centre for Mathematics and Computer*
Science, Kruislaan 413, 1098 SJ Amsterdam, The Netherlands

C. Böhm, *Dipartimento di Matematica, Università degli Studi di Roma "La Sapienza", Piazz-*
zale Aldo Moro 5, I-00185 Roma, Italy

K.-Y. Chwa, *KAIST, P.O. Box 150, Cheongryang, Seoul, S. Korea 130-650*

P.-L. Curien, *LIENS, Ecole Normale Supérieure, 45 Rue d'Ulm, 75230 Paris Cédex 05,*
France

P. Freyd, *Department of Mathematics, University of Pennsylvania, Philadelphia, PA*
19104-6395, U.S.A.

K. Furukawa, *Institute for New Generation Computer Technology, Mita Kokusai Building*
21f, 1-4-28, Mita, Minato-ku, Tokyo 108, Japan

T. Ito, *Department of Electrical Communications, Faculty of Engineering, Tohoku Universi-*
ty, Sendai, Japan

P. Kanellakis, *Department of Computer Science, Brown University, P.O. Box 1910, Pro-*
vidence, RI 02912, U.S.A.

V. Kotov, *Institute of Informatics Systems, USSR Academy of Sciences, Siberian Division,*
6 Acad. Lavrentiev pr., Novosibirsk 630090, U.S.S.R.

G. Levi, *Dipartimento di Informatica, Università di Pisa, Corso Italia 40, 56125 Pisa, Italy*

Z. Manna, *Artificial Intelligence Laboratory, Stanford University, Stanford, CA 94305,*
U.S.A.

A.R. Meyer, *Laboratory for Computer Science, MIT, 545 Technology Square, Cambridge,*
MA 02139, U.S.A.

G. Mirkowska, *Department of Mathematics and Informatics, University of Warsaw, P.O.*
Box 1210, Warsaw 00901, Poland

U. Montanari, *Dipartimento di Informatica, Università di Pisa, Corso Italia 40, I-56100*
Pisa, Italy

G. Rozenberg, *Department of Computer Science, Leiden University, P.O. Box 9512, 2300*
RA Leiden, The Netherlands

M. Takahashi, *Tokyo Institute of Technology, Department of Information Science,*
Ookayama, Meguro-ku, Tokyo 152, Japan

W. Thomas, *Institut für Informatik, Christian-Albrechts Universität Kiel, Olshausenstrasse*
40, W-2300 Kiel, Fed. Rep. Germany

J.D. Ullman, *Department of Computer Science, Stanford University, Stanford, CA 94305,*
U.S.A.

Zhou Chaochen, *Programming Research Group, 11 Keble Road, Oxford, U.K. OX1 3QD*